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AMENDMENT TRANSMITTAL LETTER (SMALL)

Applicant(s): **Danules, et al.**

Docket No.
822103-1020

Serial No.	Filing Date	Examiner	Confirmation No.	Group Art Unit
10/686,936	**October 16, 2003**	**Nagesh**	**4592**	**1722**

Invention: **Apparatus for Flatproofing a Tire and Wheel Assembly**

Commissioner for Patents
Mail Stop Amendment
P.O. Box 1450
Alexandria VA 22313-1450

Transmitted herewith is Response and Amendment in the above-identified application.

The fee has been calculated and is transmitted as shown below

CLAIMS AS AMENDED

	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	10 -	20 =		X $25.00	$
INDEP. CLAIMS	3 -	3 =		X $100.00	$
Multiple Dependent Claims (check if applicable) ☐				$180.00	$
EXTENSION FEE	1ST MONTH ☐ $60.00	2ND MONTH ☐ $225.00	3RD MONTH ☐ $510.00	4TH MONTH ☐ $795.00	$
Other Fees:					$
				TOTAL ADDITIONAL FEE FOR THIS AMENDMENT	$

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☒ The Director is hereby authorized to charge any deficiencies of the above fees or credit any overpayment to Deposit Account No. 20-0778.

Todd Deveau

Todd Deveau, Reg. No. 29,526

30 June 2005
Date

CERTIFICATE OF MAILING

I hereby certify that the below listed items are being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

on 6/30/05.

Laurie Delesandro

Laurie Delesandro

In Re Application of:

Danules, et al.

Serial No.: **10/686,936**

Filed: October 16, 2003

Group Art Unit: 1722

Examiner: Rao, G. Nagesh

Docket No. 822103-1020

For: **APPARATUS FOR FLATPROOFING A TIRE AND WHEEL ASSEMBLY**

The following is a list of documents enclosed:

Return Postcard
Response and Amendment to Non-Final Office Action
Amendment Transmittal

Further, the Commissioner is authorized to charge Deposit Account No. 20-0778 for any additional fees required. The Commissioner is requested to credit any excess fee paid to Deposit Account No. 20-0778.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Danules, et al.

Serial No.: **10/686,936**

Filed: October 16, 2003

Group Art Unit: 1722

Examiner: Rao, G. Nagesh

Docket No. 822103-1020

For: **APPARATUS FOR FLATPROOFING A TIRE AND WHEEL ASSEMBLY**

RESPONSE AND AMENDMENT TO NON-FINAL OFFICE ACTION

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

The outstanding non-final Office Action mailed March 30, 2005 (Paper No./Mail Date 03242005) has been carefully considered. Reconsideration and allowance of the application and presently pending claims, as amended, are respectfully requested.

AUTHORIZATION TO DEBIT ACCOUNT

It is believed that no extensions of time or fees for net addition of claims are required, beyond those which may otherwise be provided for in documents accompanying this paper. However, in the event that additional extensions of time are necessary to allow consideration of this paper, such extensions are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to deposit account no. 20-0778.

AMENDMENT TO THE DRAWINGS

Please amend sheet 1, Fig. 1, of the drawings to re-label the two views appearing thereon as Fig. 1A and Fig. 1B. A proposed corrected formal replacement sheet is enclosed herewith.

AMENDMENT TO THE SPECIFICATION

Please amend the Specification, page 5, line 14 – page 6, line 11, as indicated hereinafter where the changes are shown by strikethrough for deleted matter and underlining for added matter.

Figs. 1A and B ~~is a~~ are schematic views of an embodiment of a foam-filled dispensing apparatus, a top view being illustrated in Fig. 1A and a side elevational view being illustrated in Fig. 1B.

Fig. 2 is a perspective view of an embodiment of the static mixer and the tire and wheel assembly.

Fig. 3 is schematic view of an embodiment of a static mixer.

Figs. 4 A and B ~~is~~ are a flow diagram that illustrates an embodiment of the process for flatproofing a tire and wheel assembly carried out by the apparatus of Figs. 1-3.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to the drawing figures, wherein like reference numerals represent like parts throughout the several views, an exemplary embodiment of an apparatus for producing foam-filled flatproofed tire and wheel assembly of the present invention is illustrated in Figs. 1-3. Referring to Figs. 1A and B, the foam-fill dispensing apparatus 100 comprises supply lines 102A-B for supplying reactant materials for creating the foam-fill, respective pumps 106A-B for delivering the reactant materials, a nucleating compressor (not shown), static mixer 116 which receives the polyurethane reactant materials delivered by pumps 106A-B, and optionally a work table 114. The apparatus 100 is coupled to the reactant material containers 108A-B. The reactant materials stored in containers 108A-B are used to make the flexible, lightweight foam for the tire and wheel assembly 208 (shown in Fig. 2) that replaces the inflating air in the tire and wheel assembly 208. The reactant materials are supplied to the mixer head 104 coupled to the static mixer 116 via the pumps 106A-B. The reactant materials travel through supply lines 102

to static mixer 116. The pumps 106A-B can be mechanically coupled to supply the desired amount and ratio of materials needed to flatproof the tire and wheel assembly 208 from containers 108A-B to the static mixer 116. The pumps 106A-B can be controlled by a control panel (not shown). The static mixer 116 is described in more detail with reference to Fig. 3. These components can be mounted to a wheeled cart assembly 110 to allow the apparatus to be portable.